UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



PEPA United States Environmental Protection Office of Pesticide Programs Agency

Antimicrobials Division (AD)

March 31, 2015

EPA Reg#: 67603-RE			DP Barcode: 424256				
			Submission #: 960115 E-Submission: 6753				
Product name: Sanitizer #1			Registrant: Sherwin-Williams Diversified Brands				
Reviewer's name: Juan F. Negrón			AD/PSB/CTT- Product Chemistry Reviewer				
Agency due date: 04/27/15			PSB received date: 12/09/14				
CTT received date: 12/09/14			Science received date: 12/09/14				
Formulation type: EUP			Pesticide classification: Disinfectant, sanitizer, bacteriocide				
Integrated system: []		Non-integrated system: [x] Food use: [] Non		[] Non food use:	[x]		
	code: A540	Date Completed: 03/29/2015					
PC Code(s)	CAS #(s)	Active Ingredient Names				% wt (label)	
069105	68424-85-1	n-Alkyl (50%C ₁₄ , 40%C ₁₂ , 10%C ₁₆) dimethyl benzyl ammonium 0.52 chloride					
	· ~	\[\]_{3-4}	Cľ V N				
MRID: Comments:			G	uideline: 830 G	roups A & B		
Approve	r: Karen P. H	icks	Approved d	late: 03/31/2015			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



SEPA United States Office of Pesticide Programs Agency Office of Pesticide Programs

Antimicrobials Division (AD)

March 31, 2015

MEMORANDUM

Subject: Product Chemistry Review for EPA Reg # 67603-RE

Product Name: Sanitizer #1 DP Barcode: 424256

Juan F. Negrón, Chemist From:

Product Science Branch, CT Team

Antimicrobials Division (7510P)

Thru: Karen P. Hicks, CT Team Leader

Product Science Branch

Antimicrobials Division (7510P)

Velma Noble / John C Cowden To:

PM Team 31

APPLICANT: Sherwin-Williams Diversified Brands

Action code: A540

Due date: 04/27/2015

Product Formulation

Active Ingredient from label:

% by wt.

n-Alkyl (50%C₁₄, 40%C₁₂, 10%C₁₆) dimethyl benzyl ammonium chloride 0.52

BACKGROUND:

On behalf of the registrant, Sherwin-Williams Diversified Brands, the consultant, Technology Sciences Group, Inc. (TSG), is submitting an application for a new end-use product registration for "Sanitizer #1" as a non-integrated system. The product intends to make efficacy claims. This product is for interior use on ceilings, walls, doors, and trims in nursing homes, patient care centers, doctor and dentist offices, residencies, and non-critical areas of hospitals. The product is a latex paint for use in controlling human pathogens on painted surfaces. The paint will be sold only through stores owned and operated by The Sherwin-Williams Company. The Product Chemistry Reviewer has reviewed the following documents:

- Confidential Statements of Formula (CSFs), dated 10/30/2014, for the basic and alternate (#1) formulations.
- A draft label, dated 10/30/2014.
- A transmittal document, dated 10/30/2014.
- A letter, dated 10/30/2014 MRID # 49420300.
- Data matrix, dated 10/30/2014.
- Formulators' Exemption Statement, dated 10/30/2014.
- Application for a pesticide registration, dated 10/30/2014.
- Certification with respect to citation of data, dated 10/30/2014.
- A study titled "Product Chemistry of Sanitizer #1 Group A" dated 07/17/2014 MRID # 49420301.
- A study titled "Product Chemistry of Sanitizer #1 Group B" dated 07/17/2014 MRID # 49420302.

FINDINGS:

- 1. The CSFs, dated 10/30/2014, for the basic and alternate (#1) formulations are revised.
- 2. The CSFs and the label have the same nominal concentration for the active ingredient (AI).
- 3. All components meet the EPA Standard Certified Limits.
- 4. The product contains trade names that are not in the Agency inert ingredients database.
- 5. None of the colorants are in the Agency inert ingredient database from the CSF alternate #1 formulation.
- 6. The registrant has submitted to the Agency the 830 Groups (A & B) guidelines which have met the requirements for registration, except for the one-year Storage Stability and Corrosion Characteristics studies. These studies are ongoing and will be submitted upon completion.

CONCLUSIONS:

The CSFs, dated 10/30/2014, for the basic and alternate (#1) formulations are not acceptable. The CSFs shows trade names and colorant that are not in the Agency database. The requirements of the product chemical package have been met, except for the one-year Storage Stability and Corrosion Characteristics studies. These studies are ongoing and will be submitted upon completion.

RECOMMENDATIONS:

 The registrant must contact the supplier for those trade names and colorant that are not in the Agency inert ingredient database. The supplier must provide to the Agency the full compositional data.

PRODUCT CHEMISTRY REVIEW

I. CONFIDENTIAL STATEMENT OF FORMULA

a. Type of formulation and source registration:			
 Non-integrated formulation system 	[x]		
 Are all TGAIs used registered? 	Yes [x]	No []	
 Integrated formulation system 	Π		
• If "ME-TOO," specify EPA Reg. No. of e	xisting product	t:	2
b. Clearance of inerts for non-food:	Yes [x]	No []	
c. Physical state of product:	liqui	id	
d. The chemical IDs and analytical information (i and flammability are consistent with that given in			, density, pH,
e. The NCs and CLs are acceptable.	Yes [X]	No []	
f. Active ingredients n-Alkyl (50%C ₁₄ , 40%C ₁₂ , 10%C ₁₆)	<u>NC</u> (%)	<u>LCL</u> (%)	UCL (%)
dimethyl benzyl ammonium chloride	0.52	0.572	0.468
g. For products produced by an integrated formul	ation system:		
 Do all impurities of toxicological signification Yes [] No [] Not applicate. Have all impurities of ≥ 0.1% in the produce. 	ole [X]		
Yes [] No [] Not applicab			X

II PRODUCT LABEL a. The active ingredient(s) statement (chemical IDs and NC) is consistent with the CONFIDENTIAL STATEMENT OF FORMULA. Yes [X] No [] b. The formula contains one of the following: 10% or more of a petroleum distillate: Yes [] No [X] 1.0% or more of methyl alcohol: Yes [] No [X] sodium nitrite at any level: Yes [] No [X] a toxic List 1 inert at any level: Yes [] No [X] arsenic in any form: Yes [] No [X] c. If "yes" to any of the above, does the inert ingredients statement contain a footnote indicating this? Yes [] No [] Not applicable [X] d. Appropriate warning statement(s) regarding flammability or explosive characteristics of the product are listed on the label. Yes [] No[] Not applicable [X] e. The storage and disposal instructions for the pesticide container are in compliance with PR Notice 84-1 for household use products or PR Notice 83-3 for all other uses.

Yes [] No []

Yes []

f. The product requires an expiration date at which time the NC falls below the LCL

No []

Table A: Product Chemistry (Series 830, Group A)

Data Requirements	Acceptance of Information	MRID No.
830.1550 Product	A	49420301
Identity		
830.1600 Description	. A	49420301
of Materials	·	
830.1620 Production	NR The end-use product is a non-integrated system.	49420301
Process		
830.1650	A	49420301
Formulation Process		
830.1670 Formation	NR The end-use product is a non-integrated system.	49420301
of Impurities		
830.1700 Preliminary	NR The end-use product is a non-integrated system.	49420301
Analysis		
830.1750 Certified	A	49420301
Limits		
830.1800	A See EPA Reg# 67071-68.	49420301
Enforcement		
Analytical Method		
830.1900 Submittal	Available upon request.	49420301
of Samples	•	

Explanation: A=acceptable; N=not acceptable (i.e., item was submitted but is not acceptable); NA=technically not applicable; NR= not required; G=data gap (i.e., item was not submitted but is required); U=requires upgrading (i.e., item is unacceptable but upgradeable); W=waived; E=EPA estimate.

Table B:

Physical and Chemical Characteristics (Series 830, Group B)

Physical/Chemical_Properties*	Accept ance of Data	Value or Qualitative Description	MRID No.
830.6302 Color	NR	[Not required for end -use products.] However, the registrant has indicated that the color is colorless.	4942030 2
830.6303 Physical State	Α	liquid	4942030 2
830.6304 Odor	NR	[Not required for end -use products.]	
830.6313 Stability to Normal and Elevated Temperatures, Metals, and Metal Ions	NR	[Not required for end -use products.]	
830.6314 Oxidation/ Reduction; Chemical Incompatibility	A	Sanitizer #1 was nonreactive to water, iron, kerosene, 10% mono-ammonium phosphate and 10% potassium permanganate.	4942030 2
830.6315 Flammability/ Flame Extension	A	Sanitizer #1 has no flash point, after being boiled at 100°C. From its chemical composition, neither the solvent (water) nor the solutes of Sanitizer #1 have any capacity to cause or support combustion.	4942030 2
830.6316 Explodability	A	This product is not potentially explosive.	4942030 2
830.6317 Storage Stability	G	The registrant will submit the study upon completion.	4942030 2
830.6319 Miscibility	A	Sanitizer #1 is miscible with water in all proportions	4942030 2
830.6320 Corrosion Characteristics	G	The registrant will submit the study upon completion.	4942030 2
830.6321 Dielectric Breakdown Voltage	A	Product is not intended for used around electrical equipment.	4942030 2
830.7000 pH	A	7.59 @ 25°C a 1% suspension of the product in water.	4942030
830.7050 UV/Visible Absorption	NR	[Not required for end -use products.]	
830.7100 Viscosity	A	2165.136 cSt @ 20°C & 892.102 cSt @ 40°C	4942030 2
830.7200 Melting Point/Melting Range	NR	[Not required for end -use products.]	
830.7220 Boiling Point/Boiling Range	NR	[Not required for end -use products.]	10.100
830.7300 Density/Relative Density/Bulk Density	A	1.347 g/ml @ 25°C.	4942030
830.7370 Dissociation Constants in Water	NR	[Not required for end -use products.]	
830.7520 Particle Size	NR	[Not required for end -use products.]	
830.7550/830.7560/830.7570 Partition Coefficient	NR	[Not required for end -use products.]	
830.7840/830.7860 Water Solubility	NR	[Not required for end -use products.]	
830.7950 Vapor Pressure	NR	[Not required for end -use products.]	

Explanation: A=acceptable; N=not acceptable; NA=technically not applicable; NR= not required; G=data gap.

Confidential Appendix
Inert ingredient information may be entitled to confidential treatment